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# CARBANIDE DEPARAFFINATION OF OIL FRACTIONS

by A.B.Tetoryan, L.N.Kupriyanova,
D.V.Ivanyukov, V.G.Nikolayeva and
O.M.Mitrofanov

, (Section III)

Data are analyzed on carbamide deparaffination of dissel and cil fractions, use being made of various activators and solvents. A comparison is made of the quality of diesel fuels obtained in carbamide and low-temperature deparaffination, and questions of refining paraffins obtained in carbamide deparaffination of cil fractions are dealt with. Data are also given on operating a process unit for carbamide deparaffination of cil fractions.

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PRINCIPAL REGULARITIES OF HIGH-TENTED ATURE
THERMAL AND CATALYTIC PYROLYSIS OF HYDROCARBONS IN MOLTEN METALS AND A FREE VOLUME

by A.V.Topchiev, Y.M.Paushkin,
A.T.Nepryakhina, T.P.Vishnyakova
and A.A.Ananiev

(Section IV)

A study has been made of the pyrolysis of individual hydrocarbons and oil fractions at high temperatures of 700-1000°C in a free volume and with water vapour, as well as in molten metals, such as aluminium, magnesium and sodium, and with a number of catalysts.

Regularities have been revealed of the transformation of hydrocarbons at high temperatures, as well as the
special part played by molten metals reacting to hydrocarbon radicals during pyrolysis: Conditions have also
been established for obtaining ethylene and propylene
with a high gaeld of petroleum-chemical synthesis.

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COMPOSITION OF SULFUR- AND NITROGENORGANIC COMPOUNDS CONTAINED IN THE
OILS OF THE EASTERN AREAS IN THE
SOVIET UNION

R.D. Obolenteev, W.D. Halpern,

B.V. Aivesev, M.K. Besinger,

E.E. Edward vo. V.G. Lukyanitsa,

A.L. Ratevskaya and V.D. Timofeyev

#### (Section V)

of sulfur and nitrogen-organic compounds, elaborated by the Backkir Branch and the Petreleum Institute of USSR Academy of Sciences. The group composition is given of sulfur- and mitrogen-organic compounds of bennene-kerosene-solar distillation and of some wills of the eastern areas in the Possis.

a constitution is given of the methods for isolating and identified a land of the methods to be found in the section as well as it deliver organic compounds.

These titles in some distillates of the oils in the Bashkir and Bashkir Manager Manager and Santa Manager

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INVESCIBATIONS OF DIRECT CII-FINDING METHODS

Ey V.A.Sololov, F.A.Alexeyev, E.A.Darr, A.A.Geodelyan, G.A.Mobileysky, T. V.V. B.F.Yasenev

(Section I)

The paper contains theoretical and experimental data on direct cil-and gas-finding methods and their precitable application.

A description is given of the techniques of gas survey, gas-bacterial and other goodemical survey, of radiometric survey and of gas logging. The anomalies so obtained are described, and their interpretation is given as well as material on improving the methods.

RHEOLOTY, OF LURRICAMTS AND OILS

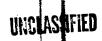
Tby G.V.Vinogradov

(Section V)

The results of research carried out in the last 10 years are analyzed in the light of recent irrestigition; and for the first time a general conception has hard to the charlest properties and strategy of labricants and oils.

Data are given on studying the resilience properfier; the shearing strength, viscosity; wall sliding, and the polarization-optical and dielectric properties during the flow. The connection is also analyzed between the geological properties of lubricants and their behaviour in antifriction bearings.

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# PHYSICO-CHEMICAL AND TECHNOLOGICAL INVESTIGATIONS OF MED FLUIDS USED FOR DRILLING WELLS

by K.F.Zhigach, P.A.Rebinder, N.N.Scrp-Serbina, I.B.Adel, L.K.Muhhin, M.C.Ti 'stein, V.N.Demishev and E.C.Kistor

## (Section II)

Regularities and the mechanism of carious structures formed during coagulation within dispersion systems have been determined, which make it possible to control the basic technological properties of mid fluids used in drilling operations.

A study has been made of the rheology and the elastic, plastic and rheological properties of various mud fluids.

The paper also deals with the application of various mud fluids and reagents to control their colloidal and chemical properties when drilling wells in difficult formations of the MSSR cilfields.

A description is given of mud fluids used for drilling-in and hydraulic rupture of oil-bearing bads.

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PRINCIPAL REGULARITIES IN THE DISTRIBUTION

OF OIL AND GAS ACCURATIONS THROUGHOUT

THE WORLD

by M.F.Mirchink, I.O.Bril,
V.G.Levinson, V.G.V. allian,
I.V.Vysotsky and V.D.Olenin

#### (Section I)

The regularities in the world distribution of oil and gas accumulations can be revealed by examining them on the map. The latter indicates that oil and gas accumulations are confined to large areas of the earth's crust sagging. These represent closed artesian basins which may also be considered as oil and gas basins.

It can be seen from the map (scale 1:25,000,000) that all the large closed areas of the earth's crust sagging may be classified into three groups.

- I. Oil and gas basins confined to depressions within platform areas.
- 2. Oil and gas basins confined to foothill troughs of present-day folded mountains.
- 3. Oil and gas basins confined to inter-nountain areas.

Each of the oil and gas basins is made up of thick sedimentary formations of different ages with well-pronounced regional oil beds, some of which may also be

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regarded as source rocks.

Oil and gas occur in every basin in regular succession to water saturating highly permeable replanding and gas accumulations form oil and gas zones confined to either anticlinal sense or to these of the stratigraphic type.

The stratigraphic range of oil and gas occurrence in every some in question depends on the lithological characteristics of the rocks composing the portion of the basin to which the above zones and their distributive provinces are related.

HYDRAULI C CHARACTERISTICS OF POROUS RESERVOIRS

by F.A. Trebin and G.F. Trebin

(Section II)

The flow of liquids and gases through porous media has been studied in the case of many diverse reservoirs. According to experimental as well as theoretical data, the critical Reynold's number for porous media approximate 0.2. All the results were analysed with the aid of a specially derived equation valid for porous rock as well as for single pipes of any configuration.

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INDUSTRIAL METHODS OF THILLIES
OIL TANKS IN THE SOVIET UNION

by E.A. Ignatchenko, 6.75 Feg. 1 ; and B.V. Popovsky

(Section VIII)

An original method of building walded to the cylindrical oil tanks has been developed in the Company Union.

The tank bottom and walls are pre-fabricalted, automatically welded and then wrapped into multi-layer rolls easy to transport. The roofing is manufactured as sheets.

The erection of the tanks formed of large black is quite simple and considerably reduces the construction schedule. The method provides for high quality and proliminating in operation.

The same original method can also be applied to building tanks of other types.

HCT/721B

# OF OILFIELD DEVELOPMENT

by P.M.Belash, A.F.Krylov and M.I.Maximov

#### (Section II)

Meld data on reserveir pressure and recovery were used in reproducing the history of field development on electrical models. Reservoir parameters and directions of flew between the reservoirs were defined.

Models reproducing the development processes permitted to predict further development with different rates of injection, to ascertain rates of flow of productive wells, reservoir pressures, contour displacement, and solve other problems of reservoir engineering.

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# HATHER AT CAL THEORY AND BLECTRICAL HOUSE STUDY OF A DESIGNATE PURP

and O.S.Tasheishvily

#### (Section II)

The problem of dynamics of a deep-well pulp has been studied in a most ceneral way in the first part of the paper (A.G.Babukov). The solutions so derived may serve as a basis for programming computers.

The second part of the paper (A.S. Mimowelly) seals with simple approximate collitions of dynamic problems of a deep-well pump.

The paper also describes an electrical model of a deep-well pump constructed in the USSR.